

Appl. No. 10/709,101
Amdt. Dated September 07, 2005
Reply to Office action of July 01, 2005

REMARKS/ARGUMENTS

1. Inventorship

Response:

The subject matter of the various claims was commonly owned at the time any
5 inventions covered therein were made. The inventors, Chia-Jun Chang and Chao-Cheng
Lee, still commonly own the subject matter of the various amended claims and newly
entered claims.

2. Claim objections – 35 U.S.C. 102(e)

10 Claim 1 was rejected under 35 U.S.C. 102(e) as being unpatentable over Lim.

Response:

Claim 1 has been amended by replacing the word 'coupled' with 'directly connected'.
The configuration of the direct connections is fully supported by Fig. 3 of the present
15 application. No new matter is added by these amendments.

The prior art of Lim claims a low pass filter having a first resistive device coupled
between a negative input end and a first node. From the figure 8C it can be seen that the
first resistive device [R2 (top)] is coupled to a pair of capacitors C'1 and C'1, which are
20 themselves coupled to the first node. This is therefore not a direct connection between

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the negative input end and first node. The figure 8C also shows a second resistive device coupled between the positive input end and the first node. From the diagram 8C, it can be seen that the second resistive device [R3 (bottom)] is directly connected to the first node, but then coupled to a capacitor C2, which is coupled to the positive input end. This is therefore also not a direct connection between the positive input end and the first node. The third and fourth resistive devices, [R3 (top)] and [R2 (bottom)] respectively, are similarly not directly connected as claimed in the present invention. Applicants therefore believe amended claim 1 has overcome the examiner's objections.

10 Original claims 2-8 are dependent on amended claim 1. If amended claim 1 is found acceptable then original claims 2-8 should also be found allowed.

3. Allowable Subject Matter

15 Claims 2-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

20 **Response:**

New claim 9 has been added by merging original claim 1 with original claim 3, as the prior art neither suggests nor teaches the limitations of a second switch device coupled to a second impedance wherein by controlling the switching time of a first switch device and the second switch device, an equivalent impedance of an adjustable impedance circuit can be determined by a first impedance value and the second impedance value. No new matter is added by these amendments.

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Applicants therefore believe the new claim 9 has been placed in condition for allowance. New claims 10-14, comprising the limitations of original claims 4-8, have been added to be dependent on new claim 9, and should be allowed if new claim 9 is found allowable. Consideration of the new claims 9-14 is respectfully requested.

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Furthermore, new claim 15 has been added, comprising original claim 1 with the limitations of original claim 2. This is because the prior art of Lim neither teaches nor suggests a low pass filter having a seventh resistive device coupled between the first node and the second node. No new matter is added by these amendments. Applicants therefore
10 believe the new claim 15 has been placed in condition for allowance.

Applicant respectfully requests that a timely Notice of Allowance be issued in this case.

15 Sincerely yours,

Winston Hsu

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